CONTRACT INCREST:			CONTRACT NO.	TASK NO.	
CONTRACT INSPECTIO	N REPORT		25X1A		
TO:			DATE		
			22 August 1966		
CONTRACT ADMINISTRATION BRANCH/PD/OL	& SETTLEN	MENT	INSPECTION REPORT NO. (I		
			ESTIMATED COMPLETION DAT	E	
NAME OF CONTRACTOR	·	<del></del>	COMPLETED		
	_				
TYPE OF COMMODITY OR SERVICE					
Direct (Virtual) Image Vic	e karin y				
THE CONTRACTOR IS ON SCHEDULE	9 17 O X	***	THE CONTRACTOR WILL PROB.	ARLY REMAIN WITHIN	A1 I
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HAS GOVERNMENT.OWNED PROPE (If yes, indicate items, quanti	RTY BEEN DEL	IVERED TO	CONTRACTOR DURING THIS PE	ERIOD? YES	[
(11 you, indicate Items, quanti	ty, and cost	. On level	se side.)		
	H		TIVES		
IS THIS AN INCENTIVE CONTRACT IF YES, CHECK TYPE	A YES	Пио	NOTE: USE REVERSE SIDE FOR COMM	MENTS.	
COST PERFORMANCE	☐ DEL	IVERY	FINAL REPORT MUST CONTAIN		гіон
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2. EXCELLENT	믐	ERAGE .	6. BARELY AD	ليسا	
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	R	RECOMMEND	ED ACTION		
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		TIVE REPORT	INTERIM	FINAL
	Final inspecti	on of the Direct Imagings regarding this co	se Viewer has been compi entract have been made:	leted at NPIC, and
	is an extremely cle the contractor has	acte. For an experimen and thoughtfully d	mical design, fabrication that in the state of the state of the viewer of the viewer of study.	coard), the Viewer
	2. The most e subsequent fulfillm	ritical contractual sent of each include t	pecifications and he following:	25X1A
	a. Magnif objective mat.	ication - dual indivi	dual magnification of 5	X and 50X:
	b. Films 100 mm or 4 X	ize - capability for 5 inches: objective	accepting single chips met.	of either 70 X
	c. Exit pobjective met.	upil size - composite	exit pupil of 3.5 inch	es square:
	on axis: objection on axis resolution	Ctive met and murcass	200 lines/mm for high ed; without auxiliary m nes/mm high contrast and, ultimate goal).	aenification
	a 0.00 density	difference over a re and surpassed; density	t brightness to allow t quired density range of y differences measurabl	0 to 1.8:
	and I transfer:	psitioning - remote fi ions permitting full of film chips: objective	ilm positioning capabil coverage viewing areas ve met.	ity through X for either
	g. Focusis magnification:	ng - separate manual i objective met.	fine focus controls for	oach lens
	Tilumination in	itensity; Magnificatio	ol mounted set including Selector, 5X and 50X oh in X, +1 inch in Y:	Lens Focus
	i. Physics inches (width)	al size - approximate X 26 inches (height):	dimentions of 66 inches objective met.	(length) X 29
	As stated in the pro- limitations in the s	ition intensity transmirious inspection repo itate-of-the-art and n	irect Image Viewer at particulated by the diffraction of this critical fault out to any performance of	on grating. is to to liebit on the part
25X1A	ruling to its appare	nt limit, but the resultness. In an attent	Tied the blasing technicality have been less the it to correct this probling presearch to	que of grating un satisfactory
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# Approved For Release 2002/06/17 : CIA-RDP78B04747A001500020028-4

technique for chemically etching diffraction gratings of the required quality. Promising results have been forthcoming recently, and if such an alternative method is perfected, the Viewer will realize its potential value, and a follow-on program can be initiated.

assesses the overall performance of under assesses the overall performance of under been received, with the exception of a second set of optics which have been granted "delivery in place" status and may be lent to the Navy for further development.

25X1A 25X1A

CONTRACT INSPECTION	REPORT		CONTRACT NO.	TASK NO.	
TO:			25X1A		
10:			3 June 1966		
CONTRACT ADMINISTRATION &	SETTL	EMENT	INSPECTION REPORT NO. (If	final so state)	
BRANCH/PD/OL			L 12	inar, oo drace,	
			ESTIMATED COMPLETION DATE		
NAME OF CONTRACTOR			29 March 1966 (De	livery)	
25X1A				٠	
TYPE OF COMMODITY OR SERVICE					
Direct Virtual Image	Viewe	•			
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PER CENT OF WORK COMPLETED . 100	<b>5</b>		REVERSE HEREOF. IF KNOWN DITIONAL FUNDS INVOLVED.	INDICATE MAGNITU	DE OF A
PER CENT OF FUNDS EXPENDED - 100	6				
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DOKING THE PERTOD! YES	NO (11	yes, give	details on reverse side.)		
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		INCE	NT I VES		
IS THIS AN INCENTIVE CONTRACT IF YES, CHECK TYPE	YES	□ NO	NOTE:		
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		BOVE AVERA	<del></del>		
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	′′ Ш ^	VERAGE	6. BARELY ADE	QUATE	
IF OVERALL PERFORMANCE OF CO REVERSE SIDE.	NTRACTOR	IS UNSATI	SFACTORY OR BARELY ADEQUATE.	INDICATE REASONS	ON
		RECOMMEND	DED ACTION		·
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TERMINATE			OTHER (Specify)		
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TERMINATE	AND CERT	IFY THAT A	FINAL REPORT PUT COMMENTS OF	N REVERSE IN NARRA THE CONTRACT HAVE	TIVE BEEN
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	RET X CON Approved For Release 2002/06/17 : 0	IFIDENTIAL CIA-RDP78B04747A001500020	UNCLASS IF
	NARRATIVE REPORT	INTERIM *	FINAL
4	On 10 March 1966, a contrac Final field inspeat that time. Those in attendan	ction of the Viewer was p	
25X1A	or RFIC/FGDS. The Viewer was just specifications promised by specifications promised by specifications further objectives, specifically illumination of the presented in the production of the diffraction by MFIC/FGDS in the near future, work has not been determined. In limited by the present state-of-photographic plates. The necessis should not be construed as reflective in the present state-of-photographic plates.	but to have fallen short  s. In order to achieve t  , to improve the chiformi age, an additional effort  n gratings will probably  As yet, the contractor  n any case, such an effor  the-art in the emulsion-c  ity for this further inve	on the hese ty of to refine be sponsored for this t will be cating of stigation performance
	On 29 March 1966, the Viewer On 12 April, it was uncrated by [ demonstrated for the PADS. Final currently in progress, and a final upon completion.	personnel an linspection procedures a	d 25X1 t <b>MPIC, are</b>

	Approved	FILE 99709 4  FORMElease 2002/06/17: CIA-RDP78B047 001500020028-4	
	STATINTL	4 March 1966	
TO:		DATE	-
FROM:			
SUBJECT	: G. F. E.		

I hereby acknowledge receipt of the following:

- l Microflat Grating # 229
- 1 Microflat Grating # 469

STATINTL

Hold Please 本本社本年 signed copy(ies) of this receipt	na .
For <u>KY Contract Monitor Visit</u>	3-7-66
FORM NO. 752 REPLACAPPROVED TO Release 2002/06/17: CIA-RDP78B	04747A004500020028-4

99709-4

CONTRACT INSPECTION	LDEDART		CONTRACT N	10.	TASK	NO.	
CONTRACT INSPECTION	KEPUKI			7 25X1A			
TO:			DATE	20/(1/(			
			1	ruary 1966			
CONTRACT ADMINISTRATION	CONTRACT ADMINISTRATION & SETTLEMENT			N REPORT NO. (I	f final.	so state)	
BRANCH/PD/OL			11			,	
				COMPLETION DATE			
NAME OF CONTRACTOR			28 Fe	bruary 1966			
NAME OF CONTRACTOR							
TYPE OF COMMODITY OR SERVICE		<u> </u>	· · · · · · · · · · · · · · · · · · ·		<del></del>		
Direct Virtual In	auge Vie	wer	<del></del>				
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PER CENT OF FUNDS EXPENDED - 99%	, ,			Slight Overs	מנויי		
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HAS GOVERNMENT OWNED PROPER	STY BEFN DE	FLIVERED T	O CONTRACTOR	reverse side.)	.6 100 3	П "	<b> ראו</b>
(If yes, indicate items, quantit	y, and cos	st on reve	rse side.)	. JUNING IMIS PE	א ו טט ל	YES	M N
		INCE	NT I VES				<del></del>
IS THIS AN INCENTIVE CONTRACT	YES	□ NO	NOTE:				
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1. OUTSTANDING 2. EXCELLENT	OVERALL 3. X A	PERFORMA	NCE OF CONT	RACTOR	RAGE 7.		
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	OVERALL 3. X A	PERFORMAI BOVE AVERA VERAGE	NCE OF CONT GE 5	RACTOR  BELOW AVEI  BARELY ADI	RAGE 7. EQUATE	UNSAT	TISFACTO
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2. EXCELLENT  IF OVERALL PERFORMANCE OF C	OVERALL 3. X A	PERFORMAI BOVE AVERA VERAGE IS UNSATI	NCE OF CONT GE 5	RACTOR  BELOW AVEI  BARELY ADI	RAGE 7. EQUATE	UNSAT	TISFACTO
2. EXCELLENT  IF OVERALL PERFORMANCE OF C	OVERALL 3. X A	PERFORMAI BOVE AVERA VERAGE IS UNSATI	NCE OF CONT GE 5 6 SFACTORY OR DED ACTION	RACTOR  BELOW AVEI  BARELY ADEQUATE  HOLD PAYMENT PER	RAGE 7. EQUATE E. INDIC.	UNSAT	TISFACTO
2. EXCELLENT  IF OVERALL PERFORMANCE OF CREVERSE SIDE.	OVERALL 3. X A	PERFORMAI BOVE AVERA VERAGE IS UNSATI	NCE OF CONT GE 5 6 SFACTORY OR DED ACTION	RACTOR  BELOW AVEI  BARELY ADEQUATE	RAGE 7. EQUATE E. INDIC.	UNSAT	TISFACTO
2. EXCELLENT  IF OVERALL PERFORMANCE OF CREVERSE SIDE.  X CONTINUE AS PROGRAMMED	OVERALL 3. X A	PERFORMAI BOVE AVERA VERAGE IS UNSATI	SFACTORY OR  DED ACTION  WITHER SATIS	RACTOR  BELOW AVEI  BARELY ADEQUATE  HOLD PAYMENT PER  BFACTORY PERFORM	RAGE 7. EQUATE E. INDIC.	UNSAT	TISFACTO
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2. EXCELLENT  IF OVERALL PERFORMANCE OF CREVERSE SIDE.  X CONTINUE AS PROGRAMMED  TERMINATE  IF TERMINATION IS RECOMMENDE	OVERALL  3. X A  4. A  CONTRACTOR	PERFORMAI BOVE AVERA VERAGE IS UNSATI RECOMMENT	NCE OF CONT  GE 5  6  SFACTORY OR  DED ACTION  WITH SATIS  OTHER	BARELY ADEQUATE  HOLD PAYMENT PER  BACTORY PERFORM  R (Specify)	RAGE 7. EQUATE  INDIC.  NDING MANCE	UNSAT	ON
2. EXCELLENT  IF OVERALL PERFORMANCE OF CREVERSE SIDE.  X CONTINUE AS PROGRAMMED  . TERMINATE	OVERALL  3. X A  4. A  CONTRACTOR  DED OR IF	PERFORMAI BOVE AVERA VERAGE IS UNSATI RECOMMENT	NCE OF CONT  GE 5  6  SFACTORY OR  DED ACTION  WITHE SATIS  OTHER  FINAL REPORT  LL DELIVERAR	BARELY ADEQUATE  HOLD PAYMENT PER  BACTORY PERFORM  R (Specify)	RAGE 7. EQUATE  INDIC.  NDING MANCE	UNSAT	ON
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NARRATIVE REPORT	K INTERIM	FINAL	
Trip to	25X1A		
5X1A	* · · · · · · · · · · · · · · · · · · ·		
On 24-25 June, a monitoring tri	ip was made to the Direct (Virtual) Im	age Viewer.	25X
Attendees were as follows:	*		25X
The viewer has been completed a			
The unit, though primarily a breadbo	ice. An acceptable 10"	by 10" grid	
was not available; however,	has produced a 2	" by 2"	
×1A considered to be acceptable	of Pade/EDLB, pro	wided a 10"	
us to utilise and test the entire as	parture of the viewer.	The monitor	
encountered distortion, saused by	y the field lens. This	results	
from the front element only and, in There are two basic solutions to thi	is problem (1) a redesi	gn of the	
field lenses, and (2) a redesign of less obvious. Because of the cost s	and time considerations	involved	
in the first option, and because this monitor intends to pursue the second		test bed, the	
Furthermore, a decision was mid		continue	25X
with an effort to produce an accepts Systems was instructed to obtain a f	able 10" by 10" grating firm quote from	and	25X 25X
to proceed on the larger grating. (grating is not currently available.	Since an acceptable 10"	weted to	25X
retain the viewer until a acceptable or until such time as we request shi	10" X 10" grating has	been produced	1207
A number of minor changes were	requested primarily in		
control panel. These modifications			
	who ha	ppen to be	
on the 23rd, were present a			l
X1A			
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Approved For Release 2002/09/17/10 PtA/RDP78B04747A001500020028-4

# RESEARCH AND DEVELOPMENT PROJECT APPROVAL REQUEST

Approved 7 JAV 1965

25X1A

#### I. <u>Identification</u>

25X1A

The Plans and Development Staff proposes a change of scope in , titled "Direct (Virtual) Image Viewer." The change involves an appreciable engineering modification which will extend the viewer's capability and which can therefore be considered to comprise a change of scope.

The change would require funding of which would be provided from NPIC's FY-65 financial plan under Category II, "Viewers and Other Interpretation Equipment." These funds are available because of cancellation of projects as a result of an extensive review of the photographic chip system.

#### II. Objectives

Specifically, the change would entail modification of the film positioning mechanism to not only accept but also translate a full 4" X 5" format at the viewer's highest magnification -- 50X. In addition, the platen would be redesigned to incorporate a film hold-down which will accommodate the larger chips and hold them accurately flat. Although experimental in nature and to be used with film chips only, the viewer would then have the precision, versatility and film-handling capability necessary for practical use and a meaningful (in-house) evaluation.

#### III. Background

Briefly, the virtual image viewer is capable of presenting the eye directly with ultra-high resolution aerial images which can be viewed simultaneously with both eyes, at magnifications of 5X (60 1/mm) and 50X (200 1/mm) in a 3.5" X 3.5" pupil field.

Because the viewer is not limited in resolution by a diffusing screen and because it can deliver the image directly to the human eye, its performance is comparable in quality to advanced microscope viewing. To achieve such a high transfer of information, the viewer makes use of an unique optical approach involving diffraction gratings.

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As originally conceived, the virtual image viewer was to be built more as an experimental model proving an unconventional optical concept than as a "prototype" leading to production. That concept was determined feasible in both theory and in rough, breadboard-type setups during a preceding contract. Consequently, quality of the optical system was to be emphasized and a trend of austerity to be followed in the mechanical parts. It was felt that supplemental components could be refined upon--if proven necessary -- for the production version.

AM expanded film translation which would permit full inspection of a standard 4" X 5" chip was requested after the fact of contracting, for it was then decided that such a modification would widen the viewer's use and the range of materials that could be viewed. Original specifications included provision for only 70 mm formats.

At the time of the request the modification was considered by both monitor and contractor to be a simpler problem and was therefore to be assumed as a natural part of the development process, without additional cost to us.

However, our requirement for two inches more of translation capability made the difference in the threshold between a simple design and another more complex design requiring different materials and a motor drive. Any provisional rig would work to the disadvantage of the optics, since film positioning vitally affects optical alignment -- which is particularly critical in this instrument.

25X1A

Exploratory Development Lab engineers have reviewed blueprints of the changes and apprize the \_\_\_\_\_\_ quote to be not only realistic but also moderate.

### IV. Technical Specifications

- 1. The new version of the film hold-down (part of the overall film positioning device) should provide an accurately flat film plane with no air entrapments.
- 2. Film platens (one for 70 mm and the other for the 4" X 5" format) should be interchangeable and easily removable for loading of the chips for viewing.
- 3. A rigid platen mechanism is required to keep viewer focusing operations to a minimum.
- 4. The translation mechanism should cover ± 2 inches in both X- and Y-directions or a total of 4 inches in both X and Y across the format.
- 5. When a change is made in magnification, the same lens-centered image should be presented for viewing.

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## V. <u>Contractual Arrangements</u>

The existing contract for the Virtual Image Viewer is a Fixed Price Incentive Contract (cost incentive only). Thus the only mode for awarding additional funds is as a "change of scope."

### VI. Security

The current contract is being handled under security measures already in effect. Association with the sponsor is classified, but the concept and the instrument is not.

# Approved For Release 2002/06 FC PGA-RDP78B04747A001500020028-4

NPIC/TDC/A-9-65

#### TECHNICAL DEVELOPMENT COMMITTEE

#### AGENDA

Time: 1030, 7 January 1965 Place: 4N 411

#### 1. Announcements

a. Approval of Minutes

	received since	roposals: Eight new proposals, listed below, have be the last meeting. If you have any interest in readi s they are available in the Plans and Development Sta	ing
		Modification of the VG-1 Enlarger's Film Transport,	25X1A 25X1A
	65/6	Modification of the VG-1 Enlarger's Film Transport,	25X1A 25X1A
	66/6	Advanced Tactical Image Interpretation Facility Subsystem Study,	25X1A
25X1A	67/6	Modification of VG-1 Enlarger's Film Transport,	25X1A
25X1A 25X1A	68/6	Microscope Objectives,	25X1A
	69/6	Request for Extension of and Authorization of Overrun (Change Detector),	25X1A
	70/6	Price Quotation for Bi-directional Counter,	25X1A
25X1	A	,	•
25X1A	71/65	Study of Image Restoration, Technical Operations Research,	

# Approved For Release 2002/06/17 FCIR-PP78B04747A001500020028-4

	2.	Disc	ussion o	f New Business	
		a.	Change	in Scope of Direct (Virtual) Ima	<b>25</b> X1A
		-	Viewer,		25X1A
25X1A		b.	Coincide	ent Photo/Radar Techniques,	25X1A
	3.	D 7			
	٥٠			Contract Proposals	
	at	The the pr	followir esent ti	ng proposals have been evaluated as of no interest me:	
25X1A			198/63	Mark II Multiple Image Correlator,	
			9/65	Binocular Magnifier,	25X1A
25X1A			10/65	Binocular Tube Magnifier,	25X1A
			41/65	Film Editing Table, I	25X1A
25X1A			45/65	Technical Proposal & Cost Quotation RFP No. RD-2-65,	25X1A
			56/65	Film Editing Table,	25X1A
I	Dist	ributio	on:		
		- Exec - Asst - Chie - Chie - MSS/ - SS/S - SS/I - Asst - Dep. - Chie - Chie	ef, MSS BFAB Security Sogistics For Op Asst, 1 f, CSD f, PD	dmin.  l - Chief, SPAD  l - L  l - Es Br.  ss.	25X1A
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	NARRATIVE REPORT	☐ INTERIM	FINAL
25X1A	1. The design of the viewer mechanical parts is complete, with eighty pe	is complete, and the de or cent of them fabricat	tailing of all
25X1A	seems to be executing its part of t ness and has, in fact, performed much of its	the work with competence work ahead of the orig	and thorough- inal schedule.
25X1A 25X1A	The project engineer's presentation to  was very satisfactory, and our cri minimal. The customer is planning to provid  which will be external to the viewer a  to hook up to the viewer for its film hold-d	ticisms of the viewer m to a small, inexpensive and vill be ready at one	echanics were
25X1A	s 2nd quarterly report has been recommittee.	sived and approved by the	ne contract
25X1A 25X1A	abroad. Consequently, schedule has sli however, that all optical elements will be d	pped by two months. It elivered to by 22 M	n of glass from is predicted, arch. 25X1A
	The overall schedule remains unaffected still be ready a few months before contract	termination date.	
25X1A   25X1A	3. The meeting in involved an evaluation of first experience.		5X1A 25X1A cilities and viewer.
25X1A	had prepared a report including confidence of their own tests on the gratings. They had grating with an aerial image, at approximate:	also set up optice for	of the results viswing the
25X1A	The results of the Phase II, trial The ruling exhibited characteristics of blazeness of intensity between spectral orders or the 3.5" x 3.5" field of exit pupils.	a Mines vieus) seess	
	While the diamond used to shape the grows grooves did not take a circular cross-section corrected by double-ruling indicating that a circular groove shape will be difficult, it measured spectral intensities did not begin twhich in themselves had narrowly missed specifailure to match the theoretical groove shape first selected groove shape and radius would visually acceptable.	the imperfections we no matter how many rule not impossible, to obtain approach the calculatifications. Moreover, in these is little little	re not ings are made, ain. The ed values, n view of the
25X1A	For Phase II, Trial #2, suggests t length exactly twice that of their first ruli the number of spectral orders so that there we when the grating is used in the direct image average the energy in the wayward orders. To resulting spectral distribution is not asymmetric of intensity too large to benefit from whatev	ng. In effect, this wo ould be an overlapping over viewer. The overlapping is approach has feasibi tric and does not eliciter were averaging is possible	uld double of exit pupils g could lity if the t differences
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25X1A	
	Narrative (Continued)
25X1A	feels that with this technique they would be improving on the theoretical possibilities rather than merely trying to approach a less-than-perfect theoretical solution. In other words, they acknowledge that no grating will live up to its theoretical promise, but they want the theoretical calculations to be outstanding enough so that the grating will fall short in a still acceptable range.
•	also suggests double- and possibly triple-ruling to reduce the blaze: an additional month for tooling but no additional funding would be required.
25X1A	believes that the second trial will decide everything: 1) if the trial is reasonably successful, they will go directly to the larger ruling; 2) if the trial proves futile, they will in all honesty consider their effort to have proven that our requirements exceed their present grasp of the craft.
	It is not anticipated, then, that there will be any third or fourth experimental trial as provided for in the contracts.
	It should be noted, at this point, that there can be no safe prediction that the successful experimental (2" x 2") ruling can be just as successfully reproduced on a 10" x 10" surface since the ruling of diffraction gratings still remains pretty much of an art.
	Finally, we recommended that authorize to proceed with their second trial grating. At the culmination in May of Phase II, trial #2, 25X3A results by that time would be appropriate.

	Approved For Release 2002/06/17 : CIA-RDP78B04747A001500020028-4	
·	25)	X1A
25X1A	12 April 1965	
25X1A	· · · · · · · · · · · · · · · · · · ·	X1A
25X1A	Due to pressure from various sources, we have encountered some delays. We expect, however, that will visit us on April 27, 1965 to witness the acceptance tests. Delivery will be immediately thereafter.  If I understand the situation correctly, this timing fits in rather well with the grating fabrication schedule.	4
	Sincerely yours.  25)	X1A`
	AW:aq	

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FORM 1897 USE PREADURE FOR Release 2002/06/17 SECRETOP 78B 0474 CO 0150 0020028-4 (When Filled In) Excluded from automatic downgrading and declassification

Approved Formelease 2002/06/17 : CIA-RDP78B047 001500020028-4

25X1A 25X1A 25X1A	submitted its first quarterly report (dated 13 October) and in that document formally summarized a change of scope which the contractor was proposing and which had been informally postulated as engineering changes by the project engineer at a September 25 meeting in The information was not sufficiently detailed for a decision by the contract monitor.
25X1A 25X1A	The actual engineering change proposal [ No. 7506] was dated 25X1 22 October but was not received by the technical monitor until the third week in November. Since that time a telephone conversation with the project engineer revealed that the contractor would withdraw one of the two proposed changes which he felt constituted a "change of scope." decided to expunge the light source change when they discovered that an high-wattage projection lamp would do the job for which a xenon arc was being considered.
	Consequently, modification of the film positioning device remains the sole point upon which the contractor now bases a change of scope.  The amount requested for the new design of that component is 25X1 In-house engineers have reviewed blueprints and apprize the quote 25X1 to be not only realistic but also very moderate.
	It is our judgment that such a change <u>does</u> comprise a change of scope by contractually acceptable definitions.
25X1A	The proposed change was thoroughly reviewed back to the proposal which we had accepted and contracted for. It was found that, although historical account did not agree entirely with ours, there was a preference stated and an informal request made on our part shortly after negotiation of the contract. The viewer was to "accomodate" or "accept" not only 70mm chips but also 4" x 5" chips; however, it would only be capable of translating over a 70mm area at the 50x magnification. The request for expanded translation was informally made by the original monitor primarily to clarify a technical misunderstanding which was documented in a set of specifications which followed the contract.
	Our request was legitimately interpreted by When first made, 25X1 though, it was considered by both parties to be simpler to implement and was to be assumed as a result of having further refined specifications—as a natural part of the development process. At the time, the request seemed straightforward and in keeping with the concept of austerity set (by us) for viewer mechanics.
•	

But, in fact, our request for a total of two inches more of translation capability made the difference between what one simple design using a cam principle couldn't fulfill and what another design requiring different materials and a motor drive could accomplish. Any skimpler arrangement would work to the disadvantage of the optics, whose quality is being emphasised in this development.

We are clearly investing in the future of the development, sinch this is one of the minor compenents which grew in scope and which will not have to be redesigned if this experimental viewer fulfills expectations.

It should be mentioned here that on none of the other points originally cited for change of scope by would we have conceded. Upon review, these latter proved to be areas in which was contractually bound and clearly responsible for a full effort.

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In addition, it is to \_\_\_\_\_ merit that they were willing to proceed on the new film pastioning device without waiting for work of additional funds.

Final approval is in the process of being secured through formal channels. West cosst contracting will be informed, without delay, of the outcome.

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# Approved For Release 2002/06/17 : CIA-RDP78B04747A001500020028-4

25X1A	, has verbally requested additional funds	
25X1A .	up to a maximum figure of for the company's (as opposed to a subcontractor's) own part in producing the prototype. The company claims that in particular two aspects of the fabrication have become more sophisticated in the course of the design.	s
25X1A	Formal and official request and accompanying justification have not yet been received by the monitor; however, a request in writing is imminent. The request will be submitted as a "change of scope" by definition of the term because this was the only alternative under a CPFF contract.	
25X1A	The contract monitor was informed by Station 954, of his meeting with to discuss the proposed request. During that meeting it was established that the ceiling price set for the contract would cover additional costs but, of course, at the expense of target cost and for a lesser profit to the company.  When the first quarterly report and request for additional funding is received, we will suggest appropriate action. At this time, however, it sooms doubtful that we will approve a change of score as such.	25X1A

ACCELIANCE

26 August 1964

25X1A

The following comments are in regard to the optical mechanical configuration of the direct image viewer. As you may recall, \_\_\_\_\_ requested that if equally feasible, the dual magnification should be done in line rather than the dual path which required two mirrors.

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I spent considerable time\* of on 19 and 20 August in reviewing this subject. The approach was to keep the mechanical and optical portions as simple as possible. We concluded that the dual path method, even though it required two small mirrors when 5X is used, provides the most practical solution.

The following points may be of interest in reviewing our decision.

- A. Functions and operations required at each magnification position:
  - 1. Blow air over film
  - 2. Control light intensity
  - 3. Move film in X and Y
  - 4. Manually fine focus each lens
  - 5. Blow air over lamp for cooling.
- B. Functions required when changing magnification with the dual system presented:
  - Move mirror in or out of path.
  - 2. Translate film to other magnification position (9" lateral movement)
- C. Functions required when changing magnification with the in line approach:
  - 1. Exchange objective lenses
  - Translate film and field flattener to other position (9.5" longitudinally)
  - Exchange first half or all of condenser system
  - 4. Translate latter half or all of condenser system and light source.

The above movement must be done in the correct order as the film's 5X position is about where the lamp was at 50X.

ILLUMINATION SOUPCE: 800 WATI ZENON ARC LAMP 25X1A

-2-

26 August 1964

In both systems the X-Y position set in at either magnification should remain in effect when the magnification change is made.

Since the lamp to be used can be turned on and off, the dual system allows for the use of rigidly mounted lamps and condensers with only a switch in electrical power.

The in line approach requires movement of the components as they are in the way when the magnification is changed.

One last point to consider is that the dual method lends itself to the simple addition of another magnification by repeating the mirror system on the other side with a shorter focal length lens. Swinging the first mirror and translating the film to the other side is all that is required.

Very	truly	yours,

25X1A

RP:nk

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FORM 1897 Approved For Release 2002/06/17: SEAREDP78B04747A001500020028-4 (When Filled In)

#### Approved For Release 2002/06/17: CIA-RDP78B04747A001500020028-4

Report on Phase I, Investigations was received. This report detailed results of theoretical investigations into the production of diffraction gratings for the virtual image viewer. Report was favorable, and Phase II will proceed.

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FORM 1897 PAPPROVED For Release 2002/06/17: SPARDP78B047474001500020028-4

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# Approved For Release 2002/06/17 : CIA-RDP78B04747A001500020028-4

25X1A 25X1A	project engineer for submitted a report 26 August on his meeting 19 & 20 August with of to discuss two alternate layouts for the optical path of the virtual image viewer.	25X1A 25X1A
	A meeting is to be arranged with and the two sub-contractors before the end of September. At this time,will present the results of Phase I and the work which they have done in the past two months. During Phase I various methods for achieving the desired grating characteristics were to be investigated and a selection made.	25X1 <i>F</i> 25X1 <i>F</i>

# SECRET (When Filled In)

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			ESTIMATED CO	OMPLETION DATE		
			15	October 1965		
NAME OF CONTRACTOR						
TYPE OF COMMODITY OR SERVICE						
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FORM 6-64 1897 Approved For Release 2002/06/17: GPARDP78B04747A001500020028-4

(When Filled In) Excluded from outomatic downgrading and declassification

## Approved For Release 2002/06/17: CIA-RDP78B04747A001500020028-4

25X1 <i>A</i>	An initial technical meeting was held at on 13 July 1964 and included:	25X1A
	25X1A	
	Minutes of the meeting were received 17 August fromCopies were also provided to the local contracting officer.	25X1A
	Authority to sign the subcontracts was substantially late in coming from the CIA contracting office; consequently, thepeople agreed to meet "on good faith", not having signed a contract for their part of the development. This delay in turn affected preliminary progress by the contractor.	25X1 <i>A</i>
25X1A	The meeting was wholly concerned with a detailed review and discussion of the work statement chaired the meeting and presented the work schedule and preliminary drawings of the prototype. All corrections and further specifications agreed upon by customer and contractors are enumerated in the attached minutes of the meeting.	
25X1A	ability to produce phase gratings which could be used as a substitute	25X1A
25X1A 25X1A	for diffraction gratings if the latter are not up to specifications. Doubt about achievement rises only from the fact that, even though they are the only company with the capability, they must still push the state of their art for this particular application. It has been agreed	(
25X1A	that who was made cognizant at the meeting of the potential of techniques, will be allowed to continue into Phase II of their efforti.e., the making of at least two trial test gratings. At that time, we will decide on the merits of their product and the advisability of allowing them to continue. (The subcontract is such that a cut-off can be called between phases.)	25X1A
25X1A	Conceivably, at that stage and if both techniques appear to produce high-quality gratings, it might be wise to simultaneously carry and efforts for fabrication of a final grating. It is probable that the test gratings will be prepared before the actual optical system is	25X1A

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25X1A

assembled and available for testing at \_\_\_\_\_\_\_ (a 6-month effort as planned). \_\_\_\_\_\_\_ is preparing recommendations relative to the use of a simulated optical train for testing the trial gratings. However, the real test can only be made in the prototype's actual optical system. It would be valuable to have both gratings to try in the system \_\_\_\_\_\_ both appear similarly promising.

25X1A

Finally, it was reiterated that the piece of equipment itself should be as straightforward as possible, with no sophisticated housing or flourishes. It is to be used primarily to evaluate (in-house) the practical value of a unique mode of viewing. For reasons of adaptability, it was decided to keep the optical train longitudinal (later, for intermediate magnifications). Three square-top filters will be selected to filter a broad spectrum source to alternative bands of the spectrum around 508.6 mm. The viewing technique could also be adapted to stereo.